

L4 ANSWER 153 OF 233 CA COPYRIGHT 2003 ACS on STN
 AN 120:198776 CA
 TI Targets of partially stabilized zirconia, and their manufacture
 IN Jaeckel, Gernot; Rudolph, Thomas; Peuckert, Doris; Joennson, Sigurd
 PA Degussa AG, Germany
 SO Ger., 4 pp.
 CODEN: GWXXAW

DT Patent
 LA German
 IC ICM C23C014-08
 ICS C23C014-30; C04B035-48
 ICA F01D005-18
 CC 57-2 (Ceramics)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4302167	C1	19940210	DE 1993-4302167	19930127
PRAI	DE 1993-4302167		19930127		

AB The ZrO₂ of the targets contains 0.5-25 wt.% Y₂O₃ as stabilizer, both oxides have purity .gtoreq.98%, and 5-80 wt.% of the ZrO₂ is present in the monoclinic form and the balance in the tetragonal and cubic form. The targets have d. 3.0-4.5 g/cm³, and are used for forming thermally insulating coatings on metal components exposed to high temps. The targets are manufd. by pressing ZrO-Y₂O₃ mixts., and sintering the green targets at 1150-1450.degree. for 0.5-10 h.

ST yttria stabilizer zirconia sputtering target

IT Sputtering
 (targets, zirconia, yttria-stabilized, manuf. of,
 for forming thermally insulating coatings on metal components
 exposed to high temps.)

IT 1314-23-4, Zirconia, uses

RL: USES (Uses)

(yttria-stabilized, sputtering targets, for forming thermally
 insulating coatings on metal components exposed to high
 temps.)

IT 1314-36-9P, Yttria, uses

RL: PREP (Preparation); USES (Uses)

(zirconia partially stabilized with, manuf. of, for forming
 thermally insulating coatings on metal components exposed to
 high temps.)

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(FILE 'HOME' ENTERED AT 15:52:13 ON 15 SEP 2003)

FILE 'CA' ENTERED AT 15:52:20 ON 15 SEP 2003

L1	87926 S ZIRCONIA OR ZIRCONIUM(W)OXIDE
L2	4182 S L1 AND CUBIC
L3	1950 S L2 AND (YTTRIA OR YTTRIUM(2A)OXIDE? OR GALDOLIUM OR YTTERBIUM
L4	233 S L3 AND (COATING OR COAT?)

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